

Title (en)

INTERFERENCE MITIGATION IN A FEMTOCELL ACCESS POINT

Title (de)

INTERFERENZUNTERDRÜCKUNG BEI EINEM FEMTOZELLEN-ZUGANGSPUNKT

Title (fr)

ATTÉNUATION D'INTERFÉRENCE DANS UN POINT D'ACCÈS FEMTOCELLULAIRE

Publication

**EP 2452517 B1 20180919 (EN)**

Application

**EP 10720458 A 20100428**

Priority

- GB 2010050695 W 20100428
- GB 0911771 A 20090707

Abstract (en)

[origin: GB2471681A] A base station in a cellular network, such as a femtocell access point, has a first coverage area, and is located in a second coverage area associated with a second base station. The base station operates to detect a possibility of interference based on estimated first path losses, between the base station and points in the first coverage area, and a second path loss, between the base station and a user equipment that is attached to the second base station. The second path loss may be estimated in the base station by: estimating the average transmit power of the user equipment; detecting in the base station signals transmitted by the user equipment; and estimating the second path loss from a difference between the estimated average transmit power and the power of the detected signals transmitted by the user equipment. If it is determined that the base station is causing interference a user may be notified or transmitted power may be reduced.

IPC 8 full level

**H04W 24/08** (2009.01); **H04W 52/24** (2009.01); **H04W 24/02** (2009.01); **H04W 52/22** (2009.01); **H04W 72/54** (2023.01); **H04W 84/04** (2009.01)

CPC (source: EP GB US)

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